INFRASTRUCTURE STUDY

Land Acquisition Cost Study, Phase I

Estimate Type: Study

Note in set on PC

Washington DCDate Prepared:18-Mar-05Don Todd Associates, Inc.Job Size:19 Acres

Div	Sub-Div	Description	Takeoff Quantity	Unit/Cost	Total Amount
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Infrastructure Study/costs for the proposed Baseball Stadium site. See attached report for Methodology and Assumptions.

2 a Site Utilities

New Work Domestic Water				
Trench excavation & backfill	862	су	\$ 40.00	\$ 34,489
Install (N) 12" CI Steel pipe water line from S Capitol to	1,900	lf	90.00	171,000
1st St. and up to N ST.				
Tap (E) water lines	3	ea	2,500	7,500
Dewatering	1,900		11.00	20,900
Connect to (E) water lines, Valves	3	ea	6,000.00	18,000
Test system	1	ls	4,000.00	4,000
New Work Fire Water				
Trench excavation & backfill	1,724	су	40.00	68,978
Install (N) 8" CI Steel pipe Fire line	3,760	lf	80.00	300,800
Install (N) Fire Hydrants	12	ea	2,400.00	28,800
Install 6" Gate Valve	12	ea	2,000.00	24,000
Backflow Preventers, Vaults & Pits	1	ls	150,000	150,000
Dewatering	3,760		11.00	41,360
Connect to (E) lines	4	ea	2,500.00	10,000
Test system	1	ls	6,000.00	6,000
Inspection & Connection Fees for Water Service				
Inspection fees	1	lot		60,000
Connection fees	1	lot		30,000
Gas Service Distribution (WGC)				
Relocate HP line in 1st Street from west side to east side				
Install (N) 8" WRPD (Excavation & Backfill Included)	890	lf	180.00	160,200
Connect to (E) lines	3	ea	2,000.00	6,000
Relocate LP line in N Street from South side to north side				
Install (N) 4" CILP (Excavation & backfill Included)	800	lf	130.00	104,000
Connect to (E) lines	8	ea	1,200.00	9,600
Dewatering	1,690		11.00	18,590
Pretax Carring charge	29.77%			88,831
Other charges				
Pressure improvements cost	1	lot		50,000
New Storm Drainage				
Relocate with new storm drain the 15" & 18" line located in	"O" Street			
Excavation & backfill	361	СУ	40.00	14,440
Dewatering	1,220	ft	11.00	13,420
Install (N) 18" storm drain from S. Capital St. to 1st st.	1220	ft	60.00	73,200
Connect to (E) 60" sewer line	1	ea	1,500	1,500
• /		ΕA	2,500	15,000

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Subtotal Direct Cost

1,530,607

INFRASTRUCTURE STUDYDTA Job No.:90-001Land Acquisition Cost Study, Phase IEstimate Type:StudyWashington DCDate Prepared:18-Mar-05

Div	Sub-Div	Description	Takeoff Quantity	Unit/Cost	Total Amount

Infrastructure Study/costs for the proposed Baseball Stadium site. See attached report for Methodology and Assumptions.

General Contractor's Gen. Conditions, Overhead & Profit	17%	260,203
Design/Estimating Contingency	25%	447,703
Escalation to Mid point of Construction	10%	223,851
Soft Costs	30%	738,709
TOTAL PROBABLE COST - Water/Gas/Drainage		\$ 3,201,074
Cost Allowance provied by Pepco		10,000,000
Cost Allowance provied by <u>Comcast</u>		250,000
Cost Allowance provied by <u>Verizon</u>		1,500,000
TOTAL PROBABLE SITE UTILITIES COST		\$ 14,951,074

Job Size:

19 Acres

2 b RELOCATE TUNNEL/SANITARY SEWER LINES

Relocate Tunnel

Don Todd Associates, Inc.

Sanitary Sewer Lines

Relocate Tunnel Diameter 11' - 6" length of tunnel +/- 2000 lf

This estimate assumes that the tunnel will be relocated to an area where the excavated material

will have some rock or large bolders, this is normal when the site is near a river.

g ·				
Sink North shaft Approx 80 feet deep	1	lot	\$ 945,000	\$ 945,000
Excavate & Support	1.00	lot	687,000	687,000
TBM & Plant erection	1.00	lot	582,000	582,000
Excavate TBM Tunnel	2,000.00	lf	1,620.00	3,240,000
Preexcavation grouting	1.00	lot	458,000	458,000
Remove TBM & trailing gear from tunnel	1.00	lot	285,000	285,000
Equipment depreciation	1.00	lot	1,460,000	1,460,000
Install & Backfill Lining	2,000.00	lf	980.00	1,960,000
Sink south shaft	1.00	lot	645,000	645,000
Install steel lining & Backfill shafts	1	lot	785,000	785,000
Indirect costs, Field supervision, Maintenance & services,	1	lot	1,968,000	1,968,000
Adandon (E) tunnel	1100	ft	150.00	165,000
Dewatering	1	lot	875,000	875,000
Inspection fees based on 280 days	1	lot	140,000	140,000
Subtotal Direct Cost				\$ 14,195,000
General Contractor's Gen. Conditions, Overhead & Profit	17%			2,413,150
Design/Estimating Contingency	25%			4,152,038
Escalation to Mid point of Construction	5%			1,038,009
Soft Costs	30%			6,539,459
TOTAL PROBABLE COST FOR TUNNEL RELOCATION				\$ 28,337,656

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INFRASTRUCTURE STUDYDTA Job No.:90-001Land Acquisition Cost Study, Phase IEstimate Type:StudyWashington DCDate Prepared:18-Mar-05Don Todd Associates, Inc.Job Size:19 Acres

Div	Sub-Div	Description	Takeoff Quantity	Unit/Cost	Total Amount
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Infrastructure Study/costs for the proposed Baseball Stadium site. See attached report for Methodology and Assumptions.

Relocate Sanitary Sewer Lines

Relocate 48" Sewer line length of pipe be lowerd by 8 feet at the corner of First Street & O Street for a distance of +/- 1000 If Remove & plug (E) Sanitary Lines 2 lot \$ 5,000 \$ 10.000 Install 48" sewer lines 1,000 ft 210.00 210,000 Dewatering 1,000 ft 35.00 35,000 Excavation & backfill 4,860 cy 40.00 194,400 Adandon (E) sewer line 1,000 ft 50.00 50,000 Inspection fees Base on 25 days 12,500 12,500 1 lot Manhole 2 ea 20,000 40,000 Subtotal Direct Cost 551,900 \$ General Contractor's Gen. Conditions, Overhead & Profit 17% 93,823 Design/Estimating Contingency 25% 161,431 Escalation to Mid point of Construction 5% 40,358 Soft Costs 30% 254,253 TOTAL PROBABLE COST SEWER LINE RELOCATION 1,101,765

TOTAL PROBABLE COST FOR RELOCATION OF TUNNEL & SANITARY SEWER \$ 29,439,421

2 c ROADS & STREETS IMPROVEMENTS

1st St SE Improvements (Between Potomac Avenue & M St):			1,380	lf	
Demolition	41,400	sf	\$ 2.00	\$	82,800
Clearing & Grubbing, Allow	1	ls	10,000		10,000
Roadway Excavation & Backfill, Allow	500	су	45.00		22,500
Sidewalk incl. Base Course	70,380	sf	10.20		717,876
Handicap Ramps	15	ea	1,000		15,000
Drainage	1,380	lf	150.00		207,000
Curb & Gutter - Granite with brick gutter	2,760	lf	80.00		220,800
Erosion Control	2,760	lf	10.00		27,600
Milling of Existing Pavement	81,420	sf	0.55		44,781
Pavement Overlay, 2" thick	1,005	ton	95.00		95,493
Additional Pavement at Intersection	1	ls	10,000		10,000
Landscaping - Trees @ 30' o.c.	92	ea	1,200		110,400
Ground Covers & Spreading	1	lot	20,000		20,000
Miscellaneous Repair	1	lot	15,000		15,000
Erosion Control	2,760	lf	10.00		27,600
Street Lighting @ 50' o.c. per side (Decorative)	55	ea	15,000		828,000
Traffic Signals	1	ea	100,000		100,000
Striping	2,760	lf	1.00		2,760

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INFRASTRUCTURE STUDY

Land Acquisition Cost Study, Phase I

Washington DC

Date Prepared: 18-Mar-05

Pon Todd Associates Inc.

N Street SE Improvements: 843 If Demolition 8,000 sf \$ 2,00 \$ 16,000 \$ 1,0000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000 \$ 1,000	Don Toa	ld Associates	s, Inc.			Job Size:		19 Acres
Discription Quantity Unit Cost				Talaas				Tatal
Methodology and Assumptions. Traffic Signs Traffic Controls Utilities Subtotal Direct Cost General Contractor's Gen. Coditions, Overhead & Profit Design/Estimating Contingency Escalation to Mid point of Construction Soft Costs TOTAL PROBABLE COST - 1ST STREET SE TOTAL PROBABLE COST - 1ST ST S	Div	Sub-Div	Description			Unit/Cost		
Traffic Signs 1 ls 10,000 10,000 Traffic Controls 1 ls 50,000 50,000 Utilities 1 ls 50,000 50,000 Utilities 1 ls 50,000 50,000 General Contractor's Gen. Coditions, Overhead & Profit 17% 461,994 Design/Estimating Contingency 25% 794,901 Escalation to Mid point of Construction 10% 397,450 Soft Costs 30% 1,311,586 TOTAL PROBABLE COST - 1ST STREET SE 5,683,541 N Street SE Improvements: 843 lf Demolition 8,000 sf \$ 2.00 \$ 16,000 Clearing & Grubbing, Allow 1 LS 10,000 10,000 Roadway Excavation & Backfill, Allow 360 cy 45,00 16,200 Sidewalk incl. Base Course 35,406 sf 10,20 361,141 Handicap Ramps 10 ea 1,000 10,000 Drainage 843 lf 150,00 126,450 Curb & Gutter - Granite with brick gutter 1,686 lf 80,00 134,480 Erosion Control 1,660 lf 10,00 16,600 Milling of Existing Pavement 26,973 sf 0,55 14,835 Pavement Overlay, 2" thick 248 ton 95,00 23,560 Additional Pavement at Intersection 1 ls 7,500 7,500 Landscaping - Trees @ 30 o.c. 55 ea 1,200 66,000 Miscellaneous Repair 1 lot 10,000 10,000 Miscellaneous Repair 1 lot 10,000 10,000 Miscellaneous Repair 1 lot 10,000 10,000 Striping 3,320 lf 1,00 3,320 Traffic Signals - ea 100,000 - Traffic Signals Forsion Controls 1 ls 5,000 505,800 Traffic Signs 1 ls 5,000 505,800 Traffic Controls 1 ls 5,000 505,800 Traffic Signs 1 ls 5,000 505,800 Traffic Signs 1 ls 5,000 505,800 Traffic Controls 1 ls 5,000 505,800	Infrastru	ucture Stud	y/costs for the proposed Baseball Stadium site. See	attached re	port	for		
Traffic Controls	Method	ology and A	Assumptions.					
Traffic Controls								
Utilities			Traffic Signs	1	ls	10,000		10,000
Subtotal Direct Cost Siz,717,610			Traffic Controls	1	ls	50,000		50,000
General Contractor's Gen. Coditions, Overhead & Profit 17% Design/Estimating Contingency 25% 794,901			Utilities	1	ls	100,000		100,000
Design/Estimating Contingency 25% 397,450 397,45			Subtotal Direct Cost				\$	2,717,610
Becalation to Mild point of Construction 10% 397,450 1,311,586 1,311			General Contractor's Gen. Coditions, Overhead & Profit	17%				461,994
N Street SE Improvements: 843 If Demolition 8,000 sf \$ 2,00 \$ 16,000 16,000 16,200			Design/Estimating Contingency	25%				794,901
N Street SE Improvements:			Escalation to Mid point of Construction	10%				397,450
N Street SE Improvements:			Soft Costs	30%				1,311,586
Demolition 8,000 sf \$ 2.00 \$ 16,000 Clearing & Grubbing, Allow 1 LS 10,000 10,000 Roadway Excavation & Backfill, Allow 360 cy 45.00 16,200 Sidewalk incl. Base Course 35,406 sf 10.20 361,141 Handicap Ramps 10 ea 1,000 10,000 Drainage 843 lf 150.00 126,450 Curb & Gutter - Granite with brick gutter 1,686 lf 80.00 134,880 Erosion Control 1,686 lf 80.00 134,880 Erosion Control 1,686 lf 80.00 134,880 Brossion Control 26,973 sf 0.55 14,835 Pavement Overlay, 2" thick 248 ton 95.00 23,560 Additional Pavement at Intersection 1 ls 7,500 7,500 Ground Covers & Spreading 1 lot 10,000 10,000 Miscellaneous Repair 1 lot 10,000 <td></td> <td></td> <td>TOTAL PROBABLE COST - 1ST</td> <td>STREET SE</td> <td></td> <td></td> <td>\$</td> <td>5,683,541</td>			TOTAL PROBABLE COST - 1ST	STREET SE			\$	5,683,541
Demolition 8,000 sf \$ 2.00 \$ 16,000 Clearing & Grubbing, Allow 1 LS 10,000 10,000 Roadway Excavation & Backfill, Allow 360 cy 45.00 16,200 Sidewalk incl. Base Course 35,406 sf 10.20 361,141 Handicap Ramps 10 ea 1,000 10,000 Drainage 843 lf 150.00 126,450 Curb & Gutter - Granite with brick gutter 1,686 lf 80.00 134,880 Erosion Control 1,686 lf 80.00 134,880 Erosion Control 1,686 lf 80.00 134,880 Brossion Control 26,973 sf 0.55 14,835 Pavement Overlay, 2" thick 248 ton 95.00 23,560 Additional Pavement at Intersection 1 ls 7,500 7,500 Ground Covers & Spreading 1 lot 10,000 10,000 Miscellaneous Repair 1 lot 10,000 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Clearing & Grubbing, Allow 1 LS 10,000 10,000 Roadway Excavation & Backfill, Allow 360 cy 45.00 16,200 Sidewalk incl. Base Course 35,406 sf 10.20 361,141 Handicap Ramps 10 ea 1,000 10,000 Drainage 843 lf 150.00 126,450 Curb & Gutter - Granite with brick gutter 1,686 lf 80.00 134,880 Erosion Control 1,660 lf 10.00 16,600 Milling of Existing Pavement 26,973 sf 0.55 14,835 Pavement Overlay, 2" thick 248 ton 95.00 23,560 Additional Pavement at Intersection 1 ls 7,500 7,500 Landscaping - Trees @ 30" o.c. 55 ea 1,200 66,000 Ground Covers & Spreading 1 lot 10,000 10,000 Miscellaneous Repair 1 lot 10,000 10,000 Erosion Control 1,686 lf </td <td></td> <td></td> <td>N Street SE Improvements:</td> <td>843</td> <td>lf</td> <td></td> <td></td> <td></td>			N Street SE Improvements:	843	lf			
Roadway Excavation & Backfill, Allow 360 cy 45.00 16,200 Sidewalk incl. Base Course 35,406 sf 10.20 361,141 Handicap Ramps 10 ea 1,000 10,000 Drainage 843 lf 150.00 126,450 Curb & Gutter - Granite with brick gutter 1,686 lf 80.00 134,880 Erosion Control 1,660 lf 10.00 16,600 Milling of Existing Pavement 26,973 sf 0.55 14,835 Pavement Overlay, 2" thick 248 ton 95.00 23,560 Additional Pavement at Intersection 1 ls 7,500 7,500 Additional Pavement at Intersection 1 ls 7,500 7,500 10,000			Demolition	8,000	sf	\$ 2.00	\$	16,000
Sidewalk incl. Base Course 35,406 sf 10.20 361,141 Handicap Ramps 10 ea 1,000 10,000 Drainage 843 lf 150.00 126,450 Curb & Gutter - Granite with brick gutter 1,686 lf 80.00 134,880 Erosion Control 1,660 lf 10.00 16,600 Milling of Existing Pavement 26,973 sf 0.55 14,835 Pavement Overlay, 2" thick 248 ton 95.00 23,560 Additional Pavement at Intersection 1 ls 7,500 7,500 Landscaping - Trees @ 30' o.c. 55 ea 1,200 66,000 Ground Covers & Spreading 1 lot 10,000 10,000 Miscellaneous Repair 1 lot 10,000 10,000 Erosion Control 1,686 lf 10.00 16,860 Street Lighting @ 50' o.c. per side (Decorative) 34 ea 15,000 505,800 Traffic Signals - ea 100,000 - Striping 3,320 lf 1 ls 5,000 5,000 Traffic Controls 1 ls 5,000 5,000 Traffic Controls <td></td> <td></td> <td>Clearing & Grubbing, Allow</td> <td>1</td> <td>LS</td> <td>10,000</td> <td></td> <td>10,000</td>			Clearing & Grubbing, Allow	1	LS	10,000		10,000
Handicap Ramps			Roadway Excavation & Backfill, Allow	360	су	45.00		16,200
Drainage 843 If 150.00 126,450 Curb & Gutter - Granite with brick gutter 1,686 If 80.00 134,880 Erosion Control 1,660 If 10.00 16,600 Milling of Existing Pavement 26,973 sf 0.55 14,835 Pavement Overlay, 2" thick 248 ton 95.00 23,560 Additional Pavement at Intersection 1 ls 7,500 7,500 Landscaping - Trees@ 30' o.c. 55 ea 1,200 66,000 Ground Covers & Spreading 1 lot 10,000 10,000 Miscellaneous Repair 1 lot 10,000 10,000 Erosion Control 1,686 lf 10.00 16,860 Street Lighting@ 50' o.c. per side (Decorative) 34 ea 15,000 505,800 Traffic Signals - ea 100,000 - - Striping 3,320 lf 1.00 3,320 Traffic Signs 1 ls 5,000 5,000 Traffic Controls 1 ls			Sidewalk incl. Base Course	35,406	sf	10.20		361,141
Curb & Gutter - Granite with brick gutter 1,686 lf 80.00 134,880 Erosion Control 1,660 lf 10.00 16,600 Milling of Existing Pavement 26,973 sf 0.55 14,835 Pavement Overlay, 2" thick 248 ton 95.00 23,560 Additional Pavement at Intersection 1 ls 7,500 7,500 Landscaping - Trees @ 30' o.c. 55 ea 1,200 66,000 Ground Covers & Spreading 1 lot 10,000 10,000 Miscellaneous Repair 1 lot 10,000 10,000 Erosion Control 1,686 lf 10.00 16,860 Street Lighting @ 50' o.c. per side (Decorative) 34 ea 15,000 505,800 Traffic Signals - ea 100,000 - Striping 3,320 lf 1.00 3,320 Traffic Controls 1 ls 15,000 5,000 Utilities 1 ls 15,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25%			Handicap Ramps	10	ea	1,000		10,000
Erosion Control 1,660 lf 10.00 16,600 Milling of Existing Pavement 26,973 sf 0.55 14,835 Pavement Overlay, 2" thick 248 ton 95.00 23,560 Additional Pavement at Intersection 1 ls 7,500 7,500 Landscaping - Trees @ 30" o.c. 55 ea 1,200 66,000 Ground Covers & Spreading 1 lot 10,000 10,000 Miscellaneous Repair 1 lot 10,000 10,000 Erosion Control 1,686 lf 10,000 16,860 Street Lighting @ 50" o.c. per side (Decorative) 34 ea 15,000 505,800 Traffic Signals - ea 100,000 - Striping 3,320 lf 1.00 3,320 Traffic Signs 1 ls 5,000 5,000 Traffic Controls 1 ls 15,000 15,000 Utilities 1 ls 75,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413			Drainage	843	lf	150.00		126,450
Milling of Existing Pavement 26,973 sf 0.55 14,835 Pavement Overlay, 2" thick 248 ton 95.00 23,560 Additional Pavement at Intersection 1 ls 7,500 7,500 Landscaping - Trees @ 30' o.c. 55 ea 1,200 66,000 Ground Covers & Spreading 1 lot 10,000 10,000 Miscellaneous Repair 1 lot 10,000 10,000 Erosion Control 1,686 lf 10.00 16,860 Street Lighting @ 50' o.c. per side (Decorative) 34 ea 15,000 505,800 Traffic Signals - ea 100,000 - Striping 3,320 lf 1.00 3,320 Traffic Signs 1 ls 5,000 5,000 Traffic Controls 1 ls 5,000 5,000 Traffic Controls 1 ls 75,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Es			Curb & Gutter - Granite with brick gutter	1,686	lf	80.00		134,880
Pavement Overlay, 2" thick 248 ton 95.00 23,560 Additional Pavement at Intersection 1 ls 7,500 7,500 Landscaping - Trees @ 30' o.c. 55 ea 1,200 66,000 Ground Covers & Spreading 1 lot 10,000 10,000 Miscellaneous Repair 1 lot 10,000 10,000 Erosion Control 1,686 lf 10.00 16,860 Street Lighting @ 50' o.c. per side (Decorative) 34 ea 15,000 505,800 Traffic Signals - ea 100,000 - Striping 3,320 lf 1.00 3,320 Traffic Signs 1 ls 5,000 5,000 Traffic Controls 1 ls 15,000 15,000 Utilities 1 ls 75,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 696,981			Erosion Control	1,660	lf	10.00		16,600
Additional Pavement at Intersection 1 Is 7,500 7,500 Landscaping - Trees @ 30' o.c. 55 ea 1,200 66,000 Ground Covers & Spreading 1 Iot 10,000 10,000 Miscellaneous Repair 1 Iot 10,000 10,000 Erosion Control 1,686 If 10,000 16,860 Street Lighting @ 50' o.c. per side (Decorative) 34 ea 15,000 505,800 Traffic Signals - ea 100,000 - Striping 3,320 If 1.00 3,320 Traffic Signs 1 Is 5,000 5,000 Traffic Controls 1 Is 15,000 15,000 Utilities 1 Is 75,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981			Milling of Existing Pavement	26,973	sf	0.55		14,835
Landscaping - Trees @ 30' o.c. 55 ea 1,200 66,000 Ground Covers & Spreading 1 lot 10,000 10,000 Miscellaneous Repair 1 lot 10,000 10,000 Erosion Control 1,686 lf 10,000 16,860 Street Lighting @ 50' o.c. per side (Decorative) 34 ea 15,000 505,800 Traffic Signals - ea 100,000 - Striping 3,320 lf 1 ls 5,000 5,000 Traffic Signs 1 ls 5,000 5,000 Traffic Controls 1 ls 15,000 15,000 Utilities 1 ls 75,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981			Pavement Overlay, 2" thick	248	ton	95.00		23,560
Ground Covers & Spreading 1 lot 10,000 10,000 Miscellaneous Repair 1 lot 10,000 10,000 Erosion Control 1,686 lf 10.00 16,860 Street Lighting @ 50' o.c. per side (Decorative) 34 ea 15,000 505,800 Traffic Signals - ea 100,000 - Striping 3,320 lf 1.00 3,320 Traffic Signs 1 ls 5,000 5,000 Traffic Controls 1 ls 15,000 15,000 Utilities 1 ls 75,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981			Additional Pavement at Intersection	1	ls	7,500		7,500
Miscellaneous Repair 1 lot 10,000 10,000 Erosion Control 1,686 lf 10.00 16,860 Street Lighting @ 50' o.c. per side (Decorative) 34 ea 15,000 505,800 Traffic Signals - ea 100,000 - Striping 3,320 lf 1 ls 5,000 5,000 Traffic Signs 1 ls 5,000 5,000 Traffic Controls 1 ls 15,000 15,000 Utilities 1 ls 75,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981			Landscaping - Trees @ 30' o.c.	55	ea	1,200		66,000
Erosion Control 1,686 lf 10.00 16,860 Street Lighting @ 50' o.c. per side (Decorative) 34 ea 15,000 505,800 Traffic Signals - ea 100,000 - Striping 3,320 lf 1.00 3,320 Traffic Signs 1 ls 5,000 5,000 Traffic Controls 1 ls 15,000 15,000 Utilities 1 ls 75,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981			Ground Covers & Spreading	1	lot	10,000		10,000
Street Lighting @ 50' o.c. per side (Decorative) 34 ea 15,000 505,800 Traffic Signals - ea 100,000 - Striping 3,320 lf 1.00 3,320 Traffic Signs 1 ls 5,000 5,000 Traffic Controls 1 ls 15,000 15,000 Utilities 1 ls 75,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981			Miscellaneous Repair	1	lot	10,000		10,000
Traffic Signals - ea 100,000 - Striping 3,320 lf 1.00 3,320 Traffic Signs 1 ls 5,000 5,000 Traffic Controls 1 ls 15,000 15,000 Utilities 1 ls 75,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981			Erosion Control	1,686	lf	10.00		16,860
Striping 3,320 lf 1.00 3,320 Traffic Signs 1 ls 5,000 5,000 Traffic Controls 1 ls 15,000 15,000 Utilities 1 ls 75,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981			Street Lighting @ 50' o.c. per side (Decorative)	34	ea	15,000		505,800
Striping 3,320 lf 1.00 3,320 Traffic Signs 1 ls 5,000 5,000 Traffic Controls 1 ls 15,000 15,000 Utilities 1 ls 75,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981			Traffic Signals	-	ea	100,000		
Traffic Signs 1 Is 5,000 5,000 Traffic Controls 1 Is 15,000 15,000 Utilities 1 Is 75,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981			Striping	3,320	lf	1.00		3,320
Traffic Controls 1 Is 15,000 15,000 Utilities 1 Is 75,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981						5,000		
Utilities 1 Is 75,000 75,000 Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981			_	1	ls			
Subtotal Direct Cost \$ 1,444,146 General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981								
General Contractor's Gen. Coditions, Overhead & Profit 17% 245,505 Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981				·	-	-,•	\$	
Design/Estimating Contingency 25% 422,413 Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981				17%			•	
Escalation to Mid point of Construction 10% 211,206 Soft Costs 30% 696,981			,					
Soft Costs 30% 696,981								
			•					
							\$	3,020,252

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INFRASTRUCTURE STUDYDTA Job No.:90-001Land Acquisition Cost Study, Phase IEstimate Type:Study

Washington DCDate Prepared:18-Mar-05Don Todd Associates, Inc.Job Size:19 Acres

Div	Sub-Div	Description	Takeoff Quantity	Unit/Cost	Total Amount
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Infrastructure Study/costs for the proposed Baseball Stadium site. See attached report for Methodology and Assumptions.

Potomac Avenue SE Improvements:	900	lf		
Demolition	4,500	sf	\$ 2.00	\$ 9,000
Clearing & Grubbing, Allow	1	ls	10,000	10,000
Roadway Excavation & Backfill, Allow	400	су	45.00	18,000
Sidewalk incl. Base Course	37,800	sf	10.20	385,560
Handicap Ramps	7	ea	1,000	7,000
Drainage	900	lf	150.00	135,000
Curb & Gutter - Granite with brick gutter	1,800	lf	80.00	144,000
Erosion Control	1,800	lf	10.00	18,000
Milling of Existing Pavement	28,800	sf	0.55	15,840
Pavement Overlay, 2" thick	356	ton	95.00	33,778
Additional Pavement at Intersection	1	ls	5,000	5,000
Landscaping - Trees @ 30' o.c.	60	ea	1,200	72,000
Ground Covers & Spreading	1	lot	10,000	10,000
Miscellaneous Repair	1	lot	10,000	10,000
Erosion Control	1,800	lf	10.00	18,000
Street Lighting @ 50' o.c. per side (Decorative)	36	ea	15,000	540,000
Traffic Signals	-	ea	100,000	-
Striping	3,600	lf	1.00	3,600
Traffic Signs	1	ls	5,000	5,000
Traffic Controls	1	ls	30,000	30,000
Utilities	1	ls	75,000	75,000
Subtotal Direct Cost				\$ 1,544,778
General Contractor's Gen. Conditions, Overhead & Profit	17%			262,612
Design/Estimating Contingency	25%			451,848
Escalation to Mid point of Construction	10%			225,924
Soft Costs	30%			745,548
TOTAL PROBABLE COST - POTOMAC	AVE. SW			\$ 3,230,710

\$ 11,934,502

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TOTAL PROBABLE COST- ROAD IMPROVEMENTS

INFRASTRUCTURE STUDYDTA Job No.:90-001Land Acquisition Cost Study, Phase IEstimate Type:StudyWashington DCDate Prepared:18-Mar-05Don Todd Associates, Inc.Job Size:19 Acres

Div	Sub-Div	Description	Takeoff Quantity	Unit/Cost	Total Amount
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Infrastructure Study/costs for the proposed Baseball Stadium site. See attached report for Methodology and Assumptions.

d Improvements to Navy Yard Metro Rail Station (Per Metro Recommendations-Option 2)
Provide four ADA elevators (2 per level), enlarge station & mezzanine area, add new escalators, add new kiosk/fare collection equipment at Mezzanine Area.

Demolition of Wall for New Opening	2,500	cf	\$ 250.00	\$ 625,000
Shoring/Protection	1	ls	50,000	50,000
Excavation	3,000	су	25.00	75,000
Backfill	825	су	35.00	28,875
Disposal of Excess Excavation	2,175	су	20.00	43,500
Sheeting	6,000	sf	25.00	150,000
Dewatering	1	ls	10,000	10,000
Exterior Walls, 2.5' thick	600	су	250.00	150,000
Rebars @ 250#/cy	150,000	lb	1.50	225,000
Formworks	12,000	sf	20.00	240,000
Concreting, Elevated Slabs, 3' thick	120	су	300.00	36,000
Rebars @ 250#/cy	30,000	lb	1.50	45,000
Formworks	1,080	sf	25.00	27,000
Concreting, Slab on Grade, 3' thick	120	су	250.00	30,000
Rebars @ 200#/cy	24,000	lb	1.50	36,000
Formworks - Edge	350	sf	20.00	7,000
Waterproofing	6,000	sf	15.00	90,000
Interior Walls	-	су	1,100	-
Connection & Modifications Vault	-	ea	50,000	-
Rooms Partition & Doors & Furnishings	-	ls	25,000	-
Wall Mounted Rails	110	lf	75.00	8,250
Stair Floor Mounted Guardrail	-	lf	150.00	-
Main Entrance Canopy	3,500	sf	100.00	350,000
Miscellaneous Metals	1	ls	25,000	25,000
Finishings, Ceiling	800	sf	50.00	40,000
Finishings, Floor	800	sf	35.00	28,000
Elevators, ADA including Structural	2	ea	400,000	800,000
Faregate/Vending Equipment	1	ls	300,000	300,000
Kiosk, complete	1	ls	200,000	200,000
Station Furniture & Graphics	1	ls	10,000	10,000
HVAC	800	sf	120.00	96,000
Electrical	800	sf	220.00	176,000
Electrical Connections	2	ls	50,000	100,000
Security, Comm, Specialties	800	sf	100.00	80,000
Electrical & Comm system integration	1	ls	50,000	50,000
Safety & Labor Inefficiency	25%	ls	675,000	168,750
Mezzanine Addition:				
New Mezzanine to Existing Station	2,700	sf	1,000	2,700,000

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INFRASTRUCTURE STUDYDTA Job No.:90-001Land Acquisition Cost Study, Phase IEstimate Type:StudyWashington DCDate Prepared:18-Mar-05

Don Todd Associates, Inc.

Job Size: 19 Acres

Takeoff
Unit/Cost
Unit/Cost

Infrastructure Study/costs for the proposed Baseball Stadium site. See attached report for Methodology and Assumptions.

Cut out at existing mezzanine and pltform for elevators	1 ls	50,000	50,000
Elevator, ADA platform to mezz., 2 stops	2 ea	300,000	600,000
Escalators	1 ea	660,000	660,000
Stair & escalator well	1 ea	200,000	200,000
Finishings	2,700 sf	85.00	229,500
Station Furniture & Graphics	2,700 sf	10.00	27,000
HVAC	2,700 sf	85.00	229,500
Electrical	2,700 sf	90.00	243,000
Security, Comm, Specialties	2,700 sf	75.00	202,500
System Integrations	2,700 sf	20.00	54,000
Railroad Insurance	1 ls	150,000	150,000
Cost mpact to Labor Inefficiency	20%	2,700,000	540,000
Subtotal Direct Cost			\$ 10,185,875
General Contractor's Gen. Conditions, Overhead & Profit	17%		1,731,599
Design/Estimating Contingency	20%		2,383,495
Escalation to Mid point of Construction	7%		1,001,068
Soft Costs	30%		4,590,611

Quantity

Amount

TOTAL PROBABLE COST - (OPTION 2) NAVY YARD METRO RAIL IMPROV COST \$ 19,892,647

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